

# Connor Vanderhook

## SENIOR SOFTWARE ENGINEER

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## Experience

### Top K Labs

FREELANCE (SENIOR SOFTWARE ENGINEER)

Mar 2023 - Present

- Instituted Domain Driven Design principles in a microservices architecture on AWS that freed engineering teams to work in parallel and increased TTD (time to deployment) by 30%.
- Worked with key stakeholders to translate complex business processes into an Orchestration-based saga to manage state between distributed transactions which significantly reduced mean time to resolution (MTTR) of system failures.

*Go, Github Actions, AWS, Cloudfront, Docker, ECS Fargate, Envoy Proxy, MySQL, Redis, Kafka, Step Functions, React Native, Expo*

### Kablamo

SENIOR SOFTWARE ENGINEER

Oct 2021 - Nov 2022

- Developed auto-scaling data pipelines on to feed an ML weather forecast model that increased data analysis capacity by more than 500%.
- Instituted dynamic rainbow deployments of production-like cloud environments using a Jenkins multi-branch pipeline strategy for a team of +20 engineers. This enabled teams to deploy with confidence and decreased Time to Production by 80%.
- Architected Serverless APIs powering an audio streaming platform to enable features like user-generated content submission, audio streaming, and social interactions and analytics. The pay-per-usage model enabled the platform to accomodate spikey traffic patterns at reduced operational cost.

*Go, Typescript, Python, Lambda, API Gateway, GraphQL, DynamoDB, Kinesis, Jenkins, Codepipeline, CloudFormation, PostgreSQL + PostGIS.*

### Kablamo

SOFTWARE ENGINEER

Aug 2019 - Sep 2021

- Optimized log pipeline indexing service, that processed Terabytes of logs/mo. This overhaul delivered more precise reporting on infrastructure expenditures surpassing \$1 million annually.
- Scaled an Elasticsearch cluster and related infrastructure for an E-commerce storefront by optimizing indices, improving sharding strategies, tuning the JVM, and eliminating slow queries that led to a 0.9% increase in site reliability.
- Deployed a containerized Server-Side Rendered (SSR) Next.js app, serving millions of monthly active users (MAU) with self-service features and a dynamic shopping cart.

### True Anthem

SOFTWARE ENGINEER

Jan 2018 - Apr 2019

- Created event-driven microservices for a social media analytics & automation platform using streaming >10k events/sec through proprietary and third-party APIs.
- Migrated services from Mesos on AWS EC2 to Google Kubernetes Engine running on GCP leading to a reduction in overall operating cost.
- Orchestrated the shipment of major product releases, and non-disruptive upgrades to schema registries, cluster infrastructure, and RDBMS.

*Kubernetes, Golang, Node.js, Cassandra, Kafka, Spark, Solr, Redis, Travis CI, Facebook & Twitter APIs, Docker, HAProxy, Mesos, Ansible*

### True Anthem

TEAM LEAD SUCCESS ENGINEERING

May 2016 - Jan 2018

- Learned to lead and motivate teammates, administer difficult conversations, and provide constructive feedback through peer and code review.
- Implemented a data warehouse leveraging Kafka (Streams & Connect), Prometheus, Grafana, and Big Query to provide a holistic view of our users and provide KPI metrics to business stakeholders.

### True Anthem

CUSTOMER SUCCESS ENGINEER

Sep 2015 - Apr 2016

- Developed tooling, automation, and an Admin UI that reduced tenant errors and improved customer health score by 5%.
- Customized and profiled custom Javascript analytics tag to capture user engagement events and metrics like (Pageviews, Bounce rate, an Activity time) while maintaining optimal site performance and negligible impact to site Lighthouse score.

### nCino

IMPLEMENTATION ENGINEER / SYSADMIN

Jun 2013 - Sep 2015

- Coordinated with engineering to drive product roadmap based on demands identified during implementation with our largest customers that generated more than \$1mm ARR.
- Developed integrations with core banking systems using ETL platforms like Informatica to synchronize data with SaaS Cloud product.

*Java, Salesforce, Informatica, Apex, Javascript, HTML, CSS, jQuery, SOAP, and REST APIs.*

## Projects

### Lace

TECHNICAL COFOUNDER

Jun 2022 - Dec 2022

- Architected an audio recording, and streaming social mobile app for iOS that received 100s of downloads and user submissions on launch.

*Swift, SwiftUI, Typescript, Firebase, Terraform, Google Cloud Platform, GCS, Cloud Functions, Cloud Run, EventArc, PubSub, ffmpeg*

## Education

University of North Carolina Wilmington

Wilmington, NC

BACHELOR OF SCIENCE

September 2009 - May 2013

Business Administration - Entrepreneurship & Business Development, Computer Science (Incomplete)